

**Seattle Fire Department Permit Application**  
**Code 7401      Inert and Simple Asphyxiant Compressed Gas**

**Level I**  
**--Revised 1/2005--**



**Permit Fee: \$152.00**

TO BE COMPLETED BY PERMIT APPLICANT (PLEASE PRINT)

FIRM NAME		
MAILING ADDRESS	SUITE	
CITY	STATE	ZIP
OPERATION ADDRESS		
CONTACT PERSON	PHONE NUMBER (      )	

**Please include a check made payable to the CITY OF SEATTLE with this application.**

**Permit applications may be submitted in person weekdays from 8:00 a.m. to 4:30 p.m., or mailed to:**

Seattle Fire Department  
Fire Marshal's Office—Permits  
220 Third Avenue South, Second Floor  
Seattle, WA 98104-2608

Permit processing: (206) 386-1025  
[www.seattle.gov/fire](http://www.seattle.gov/fire)

**TO BE COMPLETED BY INSPECTING ENGINE/LADDER COMPANY:**

TYPE OF MATERIAL	AMOUNT	LOCATION
<b>Example:</b> Carbon dioxide	8,500 cubic feet	NW corner of main yard
<input type="checkbox"/> Permit Conditions Approved		
Inspected By:	C/P/O:	SFD ID#:
Station No.	Occ. No.:	Date:
Special Permit Conditions: (continue on back if necessary)		

**FMO OFFICE USE ONLY:**

Date Received:	Receipt No.:	Check No.:
Expiration Date with Existing Permits:		Application ID#
<input type="checkbox"/> Cancel with full refund <input type="checkbox"/> Cancel, no refund <input type="checkbox"/> Moved <input type="checkbox"/> No Longer Needs <input type="checkbox"/> Out of Business		

## PERMIT CONDITIONS

1. Stationary and portable compressed gas containers, cylinders, tanks and systems shall be marked with the name of the gas. Markings shall be visible from any direction of approach. (2003 SFC 3003.2.1 and 3003.2.2)
2. Markings used for piping systems shall consist of the content's name and include a direction-of-flow arrow. Markings shall be provided at each valve; at wall, floor or ceiling penetrations; at each change of direction; and at a minimum of every 20 feet (6069 mm) or fraction thereof throughout the piping run. (2003 SFC 3003.2.3)  
Exceptions: 1) Piping that is designed or intended to carry more than one gas at various times shall have appropriate signs or markings posted at the manifold, along the piping and at each point of use to provide clear identification and warning.  
2) Piping within gas-manufacturing plants, gas-processing plants, refineries and similar occupancies shall be marked in an approved manner.
3. Areas used for the storage, use and handling of compressed gas containers, cylinders, tanks and systems shall be secured against unauthorized entry and safeguarded in an approved manner. (2003 SFC 3003.3.1)
4. Compressed gas containers, cylinders, tanks and systems that could be exposed to physical damage shall be protected by approved guard posts or other approved means in accordance with SFC Section 312. (2003 SFC 3003.3.2)
5. Compressed gas containers, cylinders and tanks shall be secured to prevent falling caused by contact, vibration or seismic activity unless they are in the process of being examined, filled, transported or serviced. Securing shall be by one of the following methods:
  - Securing to a fixed object with one or more noncombustible constraints.
  - Securing on a cart or other mobile device designed for the movement of compressed gas cylinders.
  - Nesting is allowed at container filling plants or in seller's warehouses not accessible to the public.
  - Securing to or within a rack, framework, cabinet or similar assembly designed for such use. (2003 SFC 3003.3.3)
6. Compressed gas containers, cylinders and tanks designed for protective caps, collars, or other protective devices shall have the caps or devices in place except when the containers, cylinders or tanks are in use or are being serviced or filled. (2003 SFC 3003.4.1)
7. Compressed gas containers, cylinders and tanks designed for valve protection caps or other protective devices shall have the caps or devices attached. When outlet caps or plugs are installed, they shall be in place. (2003 SFC 3003.4.2)
8. Compressed gas containers, cylinders and tanks shall be separated from each other based on the hazard class of their contents. Separation shall be accomplished by:
  - A separation distance of not less than 20 feet (6069 mm),
  - Isolating by a noncombustible partition extending not less than 18 inches (457mm) above and to the sides of the stored gases, or
  - Storage in approved gas cabinets or exhausted enclosures. (2003 SFC 3003.5.1 and 2703.9.8)
9. Combustible waste, vegetation and similar materials shall be kept a minimum of 10 feet (3048 mm) from compressed gas containers, cylinders, tanks and systems. A noncombustible partition, without openings or penetrations and extending not less than 18 inches (457 mm) above and to the sides of storage is allowed in lieu of such distance. The wall shall either be an independent structure, or the exterior wall of the building adjacent to the storage area. (2003 SFC 3003.5.2)
10. Compressed gas containers, cylinders and tanks shall not be placed near elevators, unprotected platform ledges or other areas where falling would result in compressed gas containers, cylinders or tanks being allowed to drop distances exceeding one half the height of the container, cylinder or tank. (2003 SFC 3003.5.3)
11. Compressed gas containers, cylinders and tanks shall not be exposed to artificially created temperatures exceeding 125 degrees F or sub-ambient (low) temperatures unless designed or use under the exposed conditions. (2003 SFC 3003.5.4)
12. Compressed gas containers, cylinders, tanks and systems shall not be placed in areas where they are capable of being damaged by falling objects. (2003 SFC 3003.5.5)
13. Compressed gas containers, cylinders and tanks, whether full or partially full, shall not be heated by devices which could raise the surface temperature of the container, cylinder or tank to above 125 degrees F. (52 degrees C). (2003 SFC 3003.5.6)
14. Open flames and high-temperatures devices shall not be used in a manner that creates a hazardous condition. (2003 SFC 3003.5.7)
15. Compressed gas containers, cylinders, tanks and systems shall not be exposed to corrosive chemicals or fumes which could damage containers, cylinders, tanks, valves or valve-protective caps. (2003 SFC 3003.5.8)
16. Electrical wiring and equipment shall not be located where they can become a part of an electrical circuit. (2003 SFC 3003.6)

17. Leaking, damaged or corroded compressed gas cylinders, containers and tanks shall be removed from service. (2003 SFC 3003.10)
18. To prevent bottom corrosion, containers, cylinders and tanks shall be protected from direct contact with soil or unimproved surfaces. (2003 SFC 3003.11)
19. Liquefied gas compressed gas containers, cylinders and tanks, except those designed for use in a horizontal position, and all compressed gas containers, cylinders and tanks containing non-liquefied gases shall be stored in an upright position with the valve end up. (2003 SFC 3004.1)  
Exceptions: 1) Compressed gas containers, cylinders and tanks with a water volume less than 1.3 gallons (5L) are allowed to be stored in a horizontal position.  
2) Cylinders, containers and tanks containing nonflammable gases or cylinders, containers and tanks containing nonliquefied flammable gases, which have been secured to a pallet for transportation purposes.
20. Containers, cylinders and tanks shall be moved using an approved method. Where containers, cylinders or tanks are moved by hand cart, hand truck or other mobile device, such carts, trucks or devices shall be designed for the secure movement of containers, cylinders and tanks. Ropes, chains or slings shall not be used to suspend compressed gas containers, cylinders and tanks unless provisions at time of manufacture have been made on the container, cylinder or tank for appropriate lifting attachments, such as lugs. (2003 SFC 3005.10.1 and 3005.10.2)